B1 CONT

acid residues from 1 to 433 of Figure 1 (SEQ ID NO:2), or (b) the complement of the DNA molecule of (a); and wherein said hSu(fu) polypeptide binds Gli.

Sub C3

4. (amended). An isolated nucleic acid molecule having about 1299 nucleotides encoding an hSu(fu) polypeptide, comprising DNA capable of hybridizing under stringent conditons to the complement of the nucleic acid having the sequence of nucleotide positions from about 74 to about 1372 of Figures 6A-6B (SEQ ID NO:1); wherein said stringent conditions are 0.015 M sodium chloride/0.0015 M sodium citrate/0.1% sodium dodecyl sulfate at 50°C, and wherein said hSu(fu) polypeptide binds Gli..

B2

Sub D2

5. (amended). An isolated nucleic acid molecule comprising DNA having at least an 80% sequence identity to (a) a DNA molecule encoding the polypeptide encoded by the human protein cDNA in ATCC Deposit No. PTA-127 (DNA33455-1548), or (b) the complement of the DNA molecule of (a).

6. (amended). The isolated nucleic acid molecule of Claim 5 comprising DNA encoding the polypeptide encoded by the human protein cDNA in ATCC Deposit No. PTA-127 (DNA33455-1548).

Sub C4

7. (amended). An isolated nucleic acid molecule comprising (a) DNA encoding a polypeptide having at least an 80% sequence identity to the sequence of amino acid residues from about 1 to about 433 of Figure 1 (SEQ ID NO:2), or (b) the complement of the DNA of (a), and wherein said polypeptide binds Gli..

B3

10. (amended). An isolated nucleic acid molecule having about 1299 nucleotides and produced by hybridizing a test DNA molecule under stringent conditions with (a) a DNA molecule encoding a hSu(fu) polypeptide having the sequence of amino acid residues from 1 to about 433 of Figure 1 (SEQ ID NO:2), or (b) the complement of the DNA molecule of (a), and, if the test DNA molecule has at least about an 80 % sequence identity to (a) or (b), isolating the test DNA molecule, and wherein said hSu(fu) polypeptide binds Gli.

19. (amended). An isolated hSu(fu) polypeptide comprising a polypeptide having at least an 80% sequence identity to the sequence of amino acid residues from 1 to about 433 of Figure 2 (SEQ ID NO:2), and wherein said hSu(fu) polypeptide binds Gli.

22. (amended). An isolated hSu(fu) polypeptide comprising the sequence of amino acid residues from 1 to about 433 of Figure 1 (SEQ ID NO:2), or a fragment of said polypeptide sufficient to provide a binding site for an anti-hSu(fu) antibody.

24. (amended). An isolated polypeptide produced by:

(i) hybridizing a test DNA molecule under stringent conditions with (a) a DNA molecule encoding a hSu(fu) polypeptide having the sequence of amino acid residues from 1 to about 433 of Figure 1 (SEQ ID NO:2), or (b) the complement of the DNA molecule of (a), and, if said test DNA molecule has at least about an 80% sequence identity to (a) or (b);

(ii) culturing a host cell comprising said test DNA molecule under conditions suitable for the expression of said polypeptide; and

(iii) recovering said polypeptide from the cell culture,

wherein said stringent conditions are 0.015 M sodium chloride/0.0015 M sodium citrate/0.1% sodium dodecyl sulfate at 50°C, and

wherein said hSu(fu) polypeptide binds Gli..

25. (amended). A chimeric molecule comprising the hSu(fu) polypeptide of Claim 1 fused to a heterologous amino acid sequence.